

# CD44 Monoclonal Antibody (IM7), Alexa Fluor 532, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Alexa Fluor 532, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	IM7
Conjugate	Alexa Fluor® 532
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2811907

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Flow Cytometry (Flow)	0.5 µg/test	9 Publications

## Product Specific Information

**Description:** The IM7 monoclonal antibody reacts with all isoforms of mouse CD44 (Pgp-1). CD44 is expressed by hematopoietic and non-hematopoietic cells. Bone marrow myeloid cells and memory T cells highly express this antigen and peripheral B and T cells can upregulate the expression of CD44. CD44 functions as an adhesion molecule through its binding to hyaluronate, an extracellular matrix component.

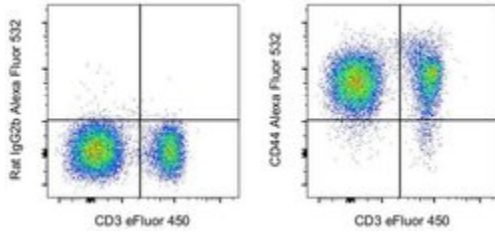
**Applications Reported:** This IM7 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This IM7 antibody has been tested by flow cytometric analysis of mouse splenocytes. This may be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Alexa Fluor 532 is excited with the Green laser (532 nm) and emits at 561 nm. This cannot be used with the Yellow-Green laser (561 nm). We recommend using a 560/14 band pass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

**Excitation:** 532 nm; **Emission:** 561 nm; **Laser:** Green Laser

## Product Images For CD44 Monoclonal Antibody (IM7), Alexa Fluor 532, eBioscience™



### CD44 Antibody (58-0441-82) in Flow

BALB/c mouse splenocytes were stained with CD3 Monoclonal Antibody, eFluor 450 (Product # 48-0032-82) and 0.25 µg of Rat IgG2b kappa Isotype Control, Alexa Fluor 532 (Product # 58-4031-80) (left) or 0.25 µg of CD44 Monoclonal Antibody, Alexa Fluor 532 (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](#)

### 11 References

#### Immunohistochemistry (2)

##### Nature communications

### The white matter is a pro-differentiative niche for glioblastoma.

"Published figure using CD44 monoclonal antibody (Product # 58-0441-82) in Immunohistochemistry"

Authors: Brooks LJ, Clements MP, Burden JJ, Kocher D, Richards L, Devesa SC, Zakka L, Woodberry M, Ellis M, Jaunmuktane Z, Brandner S, Morrison G, Pollard SM, Dirks PB, Marguerat S, Parrinello S

##### Species

Not Applicable

##### Dilution

Not Cited

##### Year

2021

##### Oncotarget

### ST6GALNAC1 plays important roles in enhancing cancer stem phenotypes of colorectal cancer via the Akt pathway.

"Published figure using CD44 monoclonal antibody (Product # 58-0441-82) in Immunohistochemistry"

Authors: Ogawa T, Hirohashi Y, Murai A, Nishidate T, Okita K, Wang L, Ikehara Y, Satoyoshi T, Usui A, Kubo T, Nakastugawa M, Kanaseki T, Tsukahara T, Kutomi G, Furuhashi T, Hirata K, Sato N, Mizuguchi T, Takemasa I, Torigoe T

##### Species

Not Applicable

##### Dilution

Not Cited

##### Year

2017

#### Flow Cytometry (9)

##### EBioMedicine

### Near-infrared photoimmunotherapy targeting human-EGFR in a mouse tumor model simulating current and future clinical trials.

"Published figure using CD44 monoclonal antibody (Product # 58-0441-82) in Flow Cytometry"

Authors: Okada R, Furusawa A, Vermeer DW, Inagaki F, Wakiyama H, Kato T, Nagaya T, Choyke PL, Spanos WC, Allen CT, Kobayashi H

##### Species

Not Applicable

##### Dilution

Not Cited

##### Year

2021

##### International journal of molecular sciences

### Therapeutic Potential of Mesenchymal Stem Cells in a Pre-Clinical Model of Diabetic Kidney Disease and Obesity.

"Published figure using CD44 monoclonal antibody (Product # 58-0441-82) in Flow Cytometry"

Authors: Sávio-Silva C, Soinski-Sousa PE, Simplício-Filho A, Bastos RMC, Beyerstedt S, Rangel ÉB

##### Species

Not Applicable

##### Dilution

Not Cited

##### Year

2021

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#### More applications with references on thermofisher.com

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